

This is a preview of "BS EN 14749:2016". Click [here](#) to purchase the full version from the ANSI store.

**BS EN 14749:2016**



**BSI Standards Publication**

# **Furniture — Domestic and kitchen storage units and kitchen-worktops — Safety requirements and test methods**

**bsi.**

...making excellence a habit.™

This is a preview of "BS EN 14749:2016". [Click here to purchase the full version from the ANSI store.](#)

This British Standard is the UK implementation of EN 14749:2016. It supersedes BS EN 14749:2005 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee FW/0/2, Domestic and Contract Furniture.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2016.  
Published by BSI Standards Limited 2016

ISBN 978 0 580 83105 8

ICS 97.040.10; 97.140

**Compliance with a British Standard cannot confer immunity from legal obligations.**

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 29 February 2016.

**Amendments/corrigenda issued since publication**

Date	Text affected
------	---------------

---

This is a preview of "BS EN 14749:2016". [Click here to purchase the full version from the ANSI store.](#)

## EUROPÄISCHE NORM

February 2016

ICS 97.040.10; 97.140

Supersedes EN 14749:2005

English Version

## Furniture - Domestic and kitchen storage units and kitchen-worktops - Safety requirements and test methods

Ameublement - Meubles de rangement domestiques et de cuisine et plans de travail de cuisine - Exigences de sécurité et méthodes d'essai

Möbel - Wohn- und Küchenbehältnismöbel und Küchenarbeitsplatten - Sicherheitstechnische Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 21 November 2015.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

This is a preview of "BS EN 14749:2016". [Click here to purchase the full version from the ANSI store.](#)

<b>Contents</b>	<b>Page</b>
European foreword.....	4
Introduction .....	5
1 Scope.....	6
2 Normative references.....	6
3 Terms and definitions .....	6
4 Test procedure and tolerances .....	9
4.1 General.....	9
4.2 Sequence of testing.....	9
4.3 Tolerances .....	9
5 Safety requirements.....	9
5.1 Principles of safety requirements.....	9
5.1.1 General.....	9
5.1.2 Determination of centre of gravity .....	9
5.1.3 Determination of total mass.....	10
5.2 General safety requirements .....	10
5.2.1 General.....	10
5.2.2 Units moving vertically .....	10
5.2.3 Lids .....	10
5.2.4 Vertically moving roll fronts and vertically moving sliding doors .....	11
5.2.5 Extension elements .....	11
5.3 Structural safety requirements.....	11
5.3.1 General.....	11
5.3.2 Shelves .....	11
5.3.3 Shelf supports.....	11
5.3.4 Storage area/-volume for heavy appliances .....	12
5.3.5 Pivoted doors.....	12
5.3.6 Sliding doors and horizontal roll fronts .....	12
5.3.7 Extension elements .....	12
5.3.8 Bottom hinged flaps .....	13
5.3.9 Top hinged flaps .....	13
5.3.10 Kitchen-worktops and other top surfaces .....	13
5.3.11 Wall hanging units and top hanging units.....	14
5.4 Stability.....	15
5.4.1 General.....	15
5.4.2 Kitchen floor units with kitchen-worktops .....	16
5.4.3 Stability of TV-furniture .....	16
5.5 Floor standing units intended to be attached to the building.....	17
5.6 Vertical glass components .....	17
6 Product information .....	17
7 Test report.....	18
Annex A (normative) Additional test methods.....	19
A.1 Vertical downwards static load of top hinged flaps.....	19
A.2 Stability of TV-furniture .....	19
A.2.1 One door, extension element or flap opened – storage areas unloaded.....	19

This is a preview of "BS EN 14749:2016". [Click here to purchase the full version from the ANSI store.](#)

<b>A.2.2</b>	<b>Doors, extension elements and flaps closed – storage areas unloaded .....</b>	<b>20</b>
<b>A.3</b>	<b>Sidewards detachment test.....</b>	<b>20</b>
<b>Annex B (informative)</b>	<b>Guide to testing of units and components.....</b>	<b>22</b>
<b>Annex C (informative)</b>	<b>Example of loading of wall hanging units and top hanging units (see 5.3.11.3 overload).....</b>	<b>27</b>
<b>Annex D (informative)</b>	<b>Method for calculation of vertical and horizontal acting forces .....</b>	<b>28</b>
<b>Bibliography</b>	<b>.....</b>	<b>32</b>

This is a preview of "BS EN 14749:2016". [Click here to purchase the full version from the ANSI store.](#)

## European foreword

This document (EN 14749:2016) has been prepared by Technical Committee CEN/TC 207 "Furniture", the secretariat of which is held by UNI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by August 2016, and conflicting national standards shall be withdrawn at the latest by February 2017.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 14749:2005.

Compared to EN 14749:2005 the following modifications have been made:

- a) structure revised;
- b) the most test methods removed and replaced by a reference to EN 16122:2012, *Domestic and non-domestic storage furniture — Test methods for the determination of strength, durability and stability*;
- c) Clause 3 "Terms and definitions" extended;
- d) tests for stability of TV-furniture added;
- e) Annex B (informative) "Guide to testing of units and components" amended;
- f) Annex D (informative) "Relation between safety requirements, total mass and position of centre of gravity of loaded units or loaded components" deleted;
- g) new Annex D (informative) containing a method for calculation of vertical and horizontal acting forces added.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

This is a preview of "BS EN 14749:2016". [Click here to purchase the full version from the ANSI store.](#)

## Introduction

With this revision the included test methods have been as far as possible taken out of the standard and referenced to:

- EN 16122:2012, *Domestic and non-domestic storage furniture — Test methods for the determination of strength, durability and stability.*

This standard was prepared in order to provide assurance that domestic storage furniture and kitchen-worktops comply with the given requirements and are safe.

The intention of this European Standard is the prevention of serious injury through normal use, as well as foreseeable misuse. It cannot ensure that structural failure will not eventually occur as a result of habitual misuse.

Co-ordinating sizes for kitchen furniture (including kitchen-worktops) kitchen appliances, sinks and decorative panels are covered by EN 1116, *Kitchen furniture — Co-ordinating sizes for kitchen furniture and kitchen appliances.*

This is a preview of "BS EN 14749:2016". [Click here to purchase the full version from the ANSI store.](#)

## 1 Scope

This European Standard specifies safety requirements and test methods for all types of kitchen and bathroom storage units and domestic storage furniture and their components.

It does not apply to non-domestic storage, office storage, industrial storage, catering equipment, retail storage and industrial storage lockers.

It does not apply to units covered by EN 71-1, *Safety of toys — Part 1: Mechanical and physical properties* and EN 60065, *Audio, video and similar electronic apparatus — Safety requirements (IEC 60065)*.

It does not include requirements for the resistance to ageing, degradation, flammability and electrical safety.

Safety that is dependent upon the structure of the building is not included, *e.g.* the strength of wall hanging units includes only the cabinet and its components including wall attachment devices. The wall and the wall attachments are not included.

Annex A (normative) contains additional test methods.

Annex B (informative) contains a guide to testing of units and components according to this document.

Annex C (informative) contains an example of loading of wall hanging units.

Annex D (informative) contains a method for calculation of vertical and horizontal acting forces.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 71-1:2014, *Safety of toys - Part 1: Mechanical and physical properties*

EN 12150-1:2015, *Glass in building — Thermally toughened soda lime silicate safety glass — Part 1: Definition and description*

EN 12600, *Glass in building - Pendulum test - Impact test method and classification for flat glass*

EN 14072:2003, *Glass in furniture - Test methods*

EN 16122:2012, *Domestic and non-domestic storage furniture - Test methods for the determination of strength, durability and stability*

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

### 3.1

#### **unit**

piece of storage furniture

### 3.2

#### **free standing unit**

unit not intended to be attached to a load bearing structure